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L1 .	2	"6445751".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/10/03 22:26
L2	0	((polarity with (transition or change)) and training and uwb).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:30
L3	0	(polarity and training and uwb).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:31
L4	8	(polarity and training adj symbol).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:31
L5	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/10/03 22:33
L6	632	(polarity with (transition or change)) and training	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L7	4599	375/316	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33

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L8	8	L6 and L7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L9		(polarity with (transition or change)) and (training or pilot or tr or "transmitted reference") and wub	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L10	14	(polarity near4 (transition or change or different)) with training	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
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L15	1	low adj complexity with training and UWB	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L16	3451	375/295	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L17	7	L6 and L16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L18	26	"delay-hopped" "transmitted reference"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/03 22:33
L19	10	hoctor.in. and uwb and polarity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
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L22	2	"20060083338".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L23	2	"6810087".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L24	26	hoctor.in. and uwb	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ÓN	2007/10/03 22:33
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L26	0	"delay-hopped" "tramsmitted reference"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/03 22:33
L27	0	10/796567	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2007/10/03 22:33
L28	0	(polarity with (transition or change)) and training and wub	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33

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L30		"6744832".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L31	0	((polarity with (transition or change)) and training and wub).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L32	1	training with polarity with symbol same synchroniz\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L33		training same polarity same symbol same synchroniz\$5 and UWB	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/10/03 22:33
L34	1	training with polarity with symbol with synchroniz\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L35		training adj symbol with polarity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33

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L36	26	training with polarity with symbol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
L37	15	training same polarity same symbol same synchroniz\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 22:33
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[PDF] Multiple-Access Interference Mitigation in Ultra Wideband Systems In the context of IR-UWB systems, spreading by random polarity codes is not intended for ...... training symbols (data-aided channel estimation) [38]. ... doi.wiley.com/10.1002/9780470042397.ch10 - Similar pages - Note this [More results from doi.wiley.com]

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Assuming that +1 is currently being transmitted, the **polarity** codes for the pulses are {+1, +1,-1, +1,-1, +1}. One of the most challenging issues in **UWB** TOA ... www.ieee802.org/15/pub/2005/15-05-0004-00-004a-mitsubishi-electrics-time-hopping-impulse-radio-standards-... - Similar pages - Note this

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in Figure 2.8, the OFDM **training symbols** shall be followed by the ... ethesys.lib.fcu.edu.tw/ETD-db/ETD-search/getfile?URN=etd-0705106-220437&filename=etd-0705106-220437.pdf - Similar pages - Note this

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regarding the application of **UWB** communication devices. The FCC opened the spectrum from 3.1 ..... with M being the number of averaged **training symbols**, ...

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	1.	SNR Estimation in Generalized Fading Channels and its Application to Turbo Decoding Ramesh, A / Chockalingam, A / Milstein, LB, conference, Jan 2001requiring the transmission of known training symbols, particularly when the channelIn Eqn. (I), the actual data polarity is unknown. Our interestis todeviserequire the transmission of known training symbols to estimate the SNR. Accordingly Full text available from ePrints@IISc	Re us fou cor dat dat sys der equ
	2.	Methods and apparatus for verifying transmit power levels in a signal point limited transmission system  Olafsson, Sverrir (Conexant Systems, Inc.), EUROPEAN PATENT APPLICATION, Aug 2002 patno:EP1233603 A pulse code modulation modem system (200) ulitizes the same total average transmit power formula for designing signal point constellations in one modem and for verifying that the transmit power of the signal point constellations are within a designated  Full text available at patent office. For more in-depth searching go to LexisNexistical designation of the signal point constellations are within a designated	err lea me po' sig sig tra tra
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E]	4.	INTERNATIONAL TELECOMMUNICATION UNION [Word-675K] Dec 1999	

...defined in G.711 have already been made. The MSB in the µ-law PCM and A-law PCM columns in Table 1/V.pcm correspond to the **polarity** bit of the G.711 character signals. A linear representation of each PCM codeword is given for reference. Table 1/V.pcm

[http://engr.smu.edu/~hbaker/v90.doc] similar results

5. METHODS AND APPARATUS FOR VERIFYING TRANSMIT POWER LEVELS IN A SIGNAL POINT LIMITED TRANSMISSION SYSTEM

OLAFSSON, Sverrir (Conexant Systems, Inc.), EUROPEAN PATENT, Feb 2001 patno: EP1076987

(FIELD OF THE INVENTION) The present invention relates generally to the regulation of transmit power levels in a signal point limited data transmission system. In particular, the present invention relates to a data communication system that verifies whether the total average transmit power of a set

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6. DECISION FEEDBACK EQUALIZER

HEO, Seo, Weon / MARKMAN, Ivonete / PARK, Jeongsoon / GELFAND, Saul, Brian (THOMSON LICENSING S.A.), PATENT COOPERATION TREATY APPLICATION, Oct 2003

patno:WO03090348

...fact that dd updates its tap on every symbol, as opposed to training symbols only, allows for faster adaptation and tracking capabilities...to whether a 1 or a zero was transmitted is based on the **polarity** of the demodulator output and is irrevocable,

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7. Robust GMSK Demodulation Using Demodulator Diversity and BER Estimation Laster, Jeffery D., Jan 1997

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8. SYSTEM AND METHOD FOR PROVIDING COMPATIBILITY BETWEEN DIFFERENT TRANSCEIVERS IN A MULTI-PAIR COMMUNICATION SYSTEM

CREIGH, John L. (BROADCOM CORPORATION), PATENT COOPERATION TREATY APPLICATION, Jun 2001

patno:WO0147184

...used to generate a scrambler octet Sc,,[7:0] for decorrelating a data word during transmission, for generating idle and training symbols, and for randomizing the signs of the encoded data signals so that each symbol stream has no dc bias. Prior to acceptance...

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9. Communication of an impairment learning sequence according to an impairment learning sequence descriptor

Olafsson, Sverrir (Conexant Systems Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jan 2003 patno: US6504886

...Transmitter 210 may cooperate with a polarity/amplitude block 212 to produce an output...synchronization-conveying data symbols. Polarity/amplitude block 212 functions to configure...204 (described in more detail below). Polarity/amplitude block 212 may suitably include...

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10. METHOD AND APPARATUS FOR A TRANSCEIVER HAVING A CONSTANT POWER OUTPUT KACZYNSKI, Brian J. (ATHEROS COMMUNICATIONS, INC.), PATENT COOPERATION TREATY APPLICATION, Aug 2002

patno:WO02065633

The present invention includes a transceiver and a method of operating the same that includes in the transmitter a power control circuit that operates on an analog differential signal containing data packets individually. The power control circuit ...

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[7] 11. 12. Blind Methods for Wireless Communication Receivers [PDF-698K] Jan 2003

...to equalize the received signal directly. The commonly used approach to the problem is to transmit a known sequence of training symbols. The receiver generates a local copy of the sequence, and the equalizer coefficients are estimated by minimizing the meansquare-error...

[http://www.calstatela.edu/centers/berp/docs/Blind%20Me...] similar results

[7] 12. Multi-band OFDM Physical Layer Proposal for IEEE 802.15 Task Group 3a [Word-3MB] Nov 2003

...inverse Fourier transform with a certain set of coefficient Cn, where the coefficients are defined as either data, pilots, or training symbols: . The parameters  $\Delta f$  and NST are defined as the subcarrier frequency spacing and the number of total subcarriers used... [http://grouper.ieee.org/groups/802/15/pub/2003/Jul03/0...] more hits from [http://grouper.ieee.org]

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13. RECEIVER FOR USE IN A CODE SHIFT KEYING SPREAD SPECTRUM COMMUNICATIONS SYSTEM

RAPHAELI, Dan / MATMOR, Avner (ITRAN COMMUNICATIONS LTD.), PATENT COOPERATION TREATY APPLICATION, Oct 2001 patno:WO0180506

...for the template from a plurality of training symbols stripped of rotation and phase whereby...of de- rotated and phase stripped training symbols thereby adapting the template to the...response to a second plurality of training symbols, generating receive symbols from the...

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**14.** WIRELESS INTERACTIVE SYSTEM AND METHOD

HADAD, Zion (RUNCOM COMMUNICATIONS LTD.), PATENT COOPERATION TREATY APPLICATION, Jan 2002

patno: WO0209298

...each possibly having a different time delay, amplitude and polarity. These signals may result in interference between adjacent...division multiplexed (OFDM) signal. The method uses two OFDM training symbols to obtain full synchronization in less than two data

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15. CARRIER ACQUISITION USING BANDEDGE SPECTRAL PROPERTIES

MCCARTY, Robert / TRIVEDI, Akshaya (COMSPACE CORPORATION, INC.), PATENT COOPERATION TREATY APPLICATION, Sep 2001 patno:WO0172000

...Other prior art systems employ **training symbols** of a known configuration at...periodically during transmission. These **training symbols** reduce the bandwidth available...the invention may also include **polarity** detection circuit coupled to...

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16. METHOD AND APPARATUS FOR GENERATING A LINE IMPAIRMENT LEARNING SIGNAL FOR A DATA COMMUNICATION SYSTEM

OLAFSSON, Sverrir (ROCKWELL SEMICONDUCTOR SYSTEMS, INC.), PATENT COOPERATION TREATY APPLICATION, Mar 1999 patno: WO9912267

...descriptor, one of a plurality of **training symbols** to each of the segments, and...Transmitter 210 may cooperate with a **polarity**/amplitude block 212 to produce...on-conveyi ng data symbols. **Polarity**/amplitude block 212 functions...described in more detail below). **Polarity**/amplitude block 212 may suitably...

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17. METHOD AND APPARATUS FOR GENERATING A LINE IMPAIRMENT LEARNING SIGNAL FOR A DATA COMMUNICATION SYSTEM

**OLAFSSON, SVERRIR**, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Nov 2001 patno: US20010038673

...Transmitter 210 may cooperate with a **polarity**/amplitude block 212 to produce an output...synchronization-conveying data symbols. **Polarity**/amplitude block 212 functions to configure...204 (described in more detail below). **Polarity**/amplitude block 212 may suitably include...

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18. CLOCK SYNCHRONIZATION, FREQUENCY SYNCHRONIZATION, CHANNEL SOUNDER AND EQUALIZER FOR OFDM USING PILOTS EQUIDISTANT IN THE FREQUENCY DOMAIN HADAD, Zion (ZION HADAD COMMUNICATIONS LTD.), PATENT COOPERATION TREATY APPLICATION, Aug 2001 patno: WO0156239

...different time delay, amplitude and **polarity**. These signals may result in interference...OFDM) signal. The method uses two OFDM **training symbols** to obtain full synchronization in less...unique properties of these two OFDM **training symbols**. Timing synchronization is determined...

Full text available at patent office. For more in-depth searching go to view all 34 results from Patent Offices similar results

**19.** Calculation and verification of transmit power levels in a signal point transmission system

Olafsson, Sverrir (Conexant Systems, Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, May 2003 patno: US6570932

...amplitude. Thus, training sequence generator may include a suitable polarity assigner

(not shown) that assigns a positive or a negative **polarity** to the transmitted **training symbols**. With continued reference to FIG. 2, signals transmitted to modem... **Full text available at patent office. For more in-depth searching go to**LexisNexistric view all 34 results from Patent Offices similar results

**20.** Receiver for use in a code shift keying spread spectrum communications system

Raphaeli, Dan / Matmor, Avner (Itran Communications Ltd.), UNITED STATES

PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 2003

patno:US6671311

...determine the shift index that is between 0 and 2n-1, where n represents the number of bits transmitted per symbol (excluding the **polarity** bit). With 64 samples, the shift index is a number between 0 and 26-1=63. Alternatively, the rate of transmission is halved...

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